

## Datasheet: MCA5958GA

**BATCH NUMBER 170914**

<b>Description:</b>	MOUSE ANTI GUINEA FOWL Bu-1a/b
<b>Specificity:</b>	Bu-1a/b
<b>Other names:</b>	BURSAL ANTIGEN 1 A/B
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	BoA1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin		▪		
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Guinea Fowl
<b>Species Cross Reactivity</b>	<p>Reacts with: Quail, Turkey, Chicken, Grey partridge</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture

supernatant

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**Buffer Solution** Phosphate buffered saline

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**Preservative** 0.1% Sodium Azide (NaN<sub>3</sub>)  
**Stabilisers** 0.1% Bovine Serum Albumin

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**Approx. Protein Concentrations** IgG concentration 0.5 mg/ml

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**Immunogen** Bursal cell suspension from guinea fowl (*Numida melagris*).

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**External Database Links**

**UniProt:**

[Q90747](#)

[Related reagents](#)

[Q90746](#)

[Related reagents](#)

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**Fusion Partners** Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/0-Ag14 myeloma cell line.

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**Specificity** **Mouse anti Guinea Fowl Bu-1a/b antibody, clone BoA1** specifically recognizes the avian bursal cell antigen, Bu-1a/b. Bu-1a/b, also known as chB6, is a type 1 transmembrane protein.

Bu-1 is a product of two alleles, Bu-1a (chB6.1) and Bu-1b (chB6.2). Mouse anti Guinea Fowl Bu-1a/b antibody, clone BoA1 recognizes both of these alleles. The Bu-1 antigen is expressed by chicken B-cells throughout most of their development and by a subset of monocytes and macrophages ([Igyártó et al. 2008](#)) but is absent from erythrocytes, granulocytes and thrombocytes. As such the Mouse anti Guinea Fowl Bu-1a/b antibody, clone BoA1 provides a useful marker of avian B-cells.

Clone BoA1 is unique in that while other antibodies generated against the Bu-1a/b antigen are restricted in their species reactivity, clone BoA1 recognizes the Bu-1a/b antigen in all phasianid species tested to date. Clone BoA1 therefore provides a reagent that facilitates comparative studies in both domestic and wild phasianids.

In addition to Mouse anti Guinea Fowl Bu-1a/b antibody, clone BoA1, clone AV20 which is specific to chicken Bu-1a/b and clone L22 which recognizes the Bu-1a but not the Bu-1b allele in chicken and quail, are also available from Bio-Rad.

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**References**

1. Igyártó, B.Z. *et al.* (2008) Identification of the avian B-cell-specific Bu-1 alloantigen by a novel monoclonal antibody. [Poult Sci. 87 \(2\): 351-5.](#)
2. Nagy, N. *et al.* (2009) Endothelial cells promote migration and proliferation of enteric neural crest cells via beta1 integrin signaling. [Dev Biol. 330 \(2\): 263-72.](#)
3. Nagy, N. & Oláh, I. (2010) Experimental evidence for the ectodermal origin of the epithelial anlage of the chicken bursa of Fabricius. [Development. 137 \(18\): 3019-23.](#)

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**Storage** Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA5958GA">https://www.bio-rad-antibodies.com/SDS/MCA5958GA</a> 10041
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Useful Reagents

[MOUSE ANTI CHICKEN Bu-1a:FITC \(MCA2170F\)](#)  
[MOUSE ANTI CHICKEN Bu-1a/b \(MCA5764\)](#)  
[MOUSE ANTI CHICKEN CSF1R \(MCA5956GA\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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